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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/809,411	03/26/2004	Hiroshi Morisaki	119283	6808

25944 7590 09/06/2006

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EXAMINER	
LEE, JUSTIN YE	

ART UNIT	PAPER NUMBER
2617	

DATE MAILED: 09/06/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/809,411	MORISAKI ET AL.	
	Examiner	Art Unit	
	Justin Y. Lee	2617	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *07 July 2006*.

2a)☒ This action is **FINAL**. 2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-17* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-17* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *26 March 2004* is/are: a)☐ accepted or b)☒ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☒ All b)☐ Some * c)☐ None of:

1.☒ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

Response to Amendment

1. This Office Action is in response to the amendment filed on 07/07/06.

Drawings

2. The drawings are objected to because in Fig. 2, t*he unlabeled rectangular box(es) shown in the drawings should be provided with descriptive text labels.* Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 11-14 are rejected under 35 U.S.C. 102(e) as being anticipated by Fukunaga et al. (US 2004/0174561 A1).

Consider claims 11-14. Fukunaga et al. teach a data processing system comprising a main terminal device having one or more functions, and a sub terminal device (image server, 111-11N) connected to the main terminal device (center server) and performs data communications therewith (Figure 1), wherein the main terminal device comprises:

a data storing unit that stores various types of data, and enables the sub terminal device to recognize the data storing unit as an external storage device so as to enable the sub terminal device to be accessible to the data storing unit (paragraph 84, 86, 491-498);

a request storage commanding unit that receives commands from an external source and stores request data in the data storing unit, the request data being generated from the main terminal device for requesting the sub terminal device to generate implementation data required for implementing one or more functions (paragraphs 84,128, 83-86); and

a function implementing unit that executes a process to implement a function based on the implementation data when the implementation data is transmitted from the sub terminal device following a command by the request storage commanding unit (paragraphs 83,133, 92, 93, 134, 154), and wherein the sub terminal device comprises:

a data generating unit that generates the implementation data when the request data is stored in the data storing unit and transmits the implementation data to the terminal device (paragraphs 86, 154); and

an implementation data transmitting unit that transmits the implementation data generated by the data generating unit to the main terminal device (paragraph 86).

Fukunaga also teaches the following system and processes embodied as a program and stored in a storage medium (paragraphs 23,731,732). Fukunaga also teaches a program of executing a process to implement the function of the main terminal device based on the implementation data after the program of transmitting the implementation data is executed (paragraph 83, 154).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-7, 9-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fukunaga et al. (US 2004/0174561 A1) in view of Iinuma (US 2002/0032671 A1).

Consider claim 1. Fukunaga et al. teach a data processing system comprising a main terminal device having one or more functions, and a sub terminal device (image server, 111-11N) connected to the main terminal device (center server) and performs data communications therewith (Figure 1), wherein the main terminal device comprises:

a data storing unit that stores various types of data, and enables the sub terminal device to recognize the data storing unit as an external storage device so as to enable the sub terminal device to be accessible to the data storing unit (paragraph 84, 86, 491-498);

a request storage commanding unit that receives commands from an external source and stores request data in the data storing unit, the request data being generated from the main terminal device for requesting the sub terminal device to generate implementation data required for implementing one or more functions (paragraphs 84,128, 83-86); and

a function implementing unit that executes a process to implement a function based on the implementation data when the implementation data is transmitted from the sub terminal device following a command by the request storage commanding unit (paragraphs 83,133, 92, 93, 134, 154), and wherein the sub terminal device comprises:

a data generating unit that generates the implementation data based on the request data read by the reading unit (paragraphs 86, 154); and

an implementation data transmitting unit that transmits the implementation data generated by the data generating unit to the main terminal device (paragraph 86).

Fukunaga et al. do not disclose a data reading unit that reads the request data stored in the data storing unit when the request data is stored in the data storing unit.

Iinuma further disclose a data reading unit that reads the request data stored in the data storing unit when the request data is stored in the data storing unit (paragraph 2 and 27, computer 102 reads data from external storage 106).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize the teachings of Iinuma into the teachings of Fukunaga et al. for the purposes of improving the cache hit ratio (paragraph 13).

Consider claim 2, Fukunaga teaches the data processing system according to claim 1 , wherein the implementation data transmitting unit transmits the implementation data generated-by the data generating unit to the main terminal device (paragraph 86) and directs the implementation data to be stored in the data storing unit (paragraph 84), and the function implementing unit executes a process to implement the function based on the implementation data when the implementation data transmitted from the sub terminal device is stored in the data storing unit (paragraph 84,86).

With respect to claim 3, Fukunaga teaches the data processing system according to claim 1, wherein the sub terminal device further comprises a request deleting unit that deletes the request data stored in the data storing unit aûer the data generating unit generates the implementation data (paragraph 152).

With respect to claim 4, Fukunaga teaches the data processing system according to claim 2, wherein the main terminal device further comprises an implementation data deleting unit that deletes the implementation data stored in the data storing unit after the

function implementing unit executes the process to implement the function (paragraph 555).

With respect to claim 5, Fukunaga teaches the data processing system according to claim 1, wherein the main terminal device further comprises; an image communicating unit that transmits and receives image data via a network (paragraphs 83,84); and a printing unit that prints various images on a recording medium (paragraphs 81,84,87), wherein the request storage commanding unit stores the request data with the image data attached to the request data in the data storing unit when the image data is received by the image communicating unit, the implementation data being print data converted from the image data and having a data format that is printable V the printing unit, the request data being data for requesting generation of the implementation data (paragraphs 84,127); and the function implementing unit executes a printing process for images indicated by the print data by controlling the printing unit to print the images based on the implementation data when the implementation data is received from the sub terminal device after the command by the request recording command unit (paragraph 84); and wherein the data generating unit generates converted image data by converting the image data attached to the request data to a data format requested by the request data when the request data is stored in the data storing unit (paragraphs 84,145).

With respect to claim 6, Fuktmaga teaches the data processing system according to claim 1, wherein the main terminal device is connected to a network and performs data communications therewith, the main terminal device further comprising'. a data

acquiring unit that receives commands from an external source outside the main terminal device and acquires external data inputted from the external source (paragraphs 81,84); and an external storage commanding unit that stores the external data acquired by the data acquiring unit in the data storing unit (paragraphs 81,84); wherein the request storage commanding unit stores the request data with the external data attached to the request data in the data storing unit after the external data is stored in the data storing unit, the implementation data being data converted from the external data and having a data format that is transferable to the network, the request data being data for requesting generation of the implementation data (paragraphs 84,127,145); and the function implementing unit implements data communications in the data format by transmitting the implementation data via the network when the implementation data is transmitted from the sub terminal device after issuance of the command by the request storage commanding unit (paragraph 84); and the data generating unit generates converted external data converted from the external data attached to the implementation data to the data format requested by the request data when the request data is stored in the data storing unit (paragraphs 84,127,145).

With respect to claim 7, Fukunaga teaches the data processing system according to claim 6, wherein the main terminal device further comprises transmission specifying unit that prompts a user to specify external data to be transmitted via the network from among external data acquired by the data acquiring unit (paragraph 8 1), wherein the request storage commanding unit stores the request data in the data storing unit when the external data has been specified by the transmission specifying unit (paragraph 84).

With respect to claim 9, Fuktmaga teaches the data processing system according to claim 6, wherein the data acquiring unit receives user operations and scans a prescribed image to acquire image data as the external data (paragraphs 264,730); and the request storage commanding unit stores the request data in the data storing unit when the external data is stored in the data storing unit (paragraphs 84,127).

With respect to claim 10, Fukunaga teaches the data processing system according to claim 6, wherein the request data is data for requesting that the external data be converted to a compressed data format (paragraphs 265,730).

5. Claims 8 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fukunaga et al. (US 2004/0174561 A1) in view of Iinuma (US 2002/0032671 A1) as applied to claims 1 and 6 and further in view of Tanaka et al. (US 2002/0082001 A1).

With respect to claim 8, Fukunaga teaches the data processing system according to claim 6. Fukunaga and Iinuma fails to specifically mention the main terminal device has a function for implementing a voice call based on voice signals inputted and outputted via the network; and the data acquiring unit receives commands from an external source and begins and ends the acquisition of voice signals inputted and outputted via the network as the external data.

In the same field of endeavor, Tanaka teaches a similar system wherein the main terminal device has a function for implementing a voice call based on voice signals inputted and outputted via the network (paragraphs 33,49,51); and the data acquiring unit receives commands from an external source and begins and ends the acquisition of

voice signals inputted and outputted via the network as the external data (paragraphs 33,49).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use a terminal device with a function for implementing a voice call based on voice signals inputted and outputted via the network', and a data acquiring unit receives commands from an external source and begins and ends the acquisition of voice signals inputted and outputted via the network as the external data, so as to have a more versatile terminal device as exemplified by Tanaka (paragraphs 33,49,51).

With respect to claim 15, Fukunaga teaches the data processing system according to claim 1. Fukunaga fails to expressly disclose the mail terminal device is a peripheral device.

In the same field of endeavor, Tanaka teaches a similar system wherein the main terminal device is a peripheral device (paragraph 79).

6. Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Fukunaga et al. (US 2004/0174561 A1) in view of Iinuma (US 2002/0032671 A1) as applied to claims 1 and further in view of Ogura et al. (US 2002/0165800 A1).

With respect to claim 16, Fukunaga and Linuma teaches the data processing system according to claim 1 . Fukunaga and Linuma fail to expressly disclose the main terminal device is one of a telephone, a facsimile device, a printer and a scanner.

In the same field of endeavor, Ogura teaches a similar system wherein the main terminal device is a facsimile device (facsimile server, paragraph 13).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the content server disclosed by Fukunaga to be a facsimile device so the server is capable of receiving transmission information from a facsimile apparatus" as taught by Ogura (paragraph 13) thereby making the server more versatile.

7. Claim 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over Fukunaga et al. (US 2004/0174561 A1) in view of Iinuma (US 2002/0032671 A1) as applied to claims 1 and further in view of Chen et al. (US 20060010229 A1).

With respect to claim 17, Fukunaga and Linuma teaches the data processing system according to claim I. Fukunaga and Linuma fail to expressly disclose the sub terminal device is a personal computer.

In the same field of endeavor, Chen teaches a similar system wherein the sub terminal device is a personal computer (paragraph 30).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use a personal computer as the image server for the advantage of viewing the image on a monitor for further processing.

Response to Arguments

Applicant's arguments filed 7/7/06 have been fully considered but they are not persuasive.

Regarding the Fukunaga reference,	In contrast to applicant's assertions,

applicant states that, Fukunaga does not disclose an invention that "enables the sub-terminal device to recognized the data storing unit as an external storage device so as to enable the sub-terminal device to be accessible to the data storing unit.	Fukunaga reference discloses enables the sub-terminal device to recognized the data storing unit as an external storage device so as to enable the sub-terminal device to be accessible to the data storing unit (491-498, the image server 111 establishes connection with center server 102 and read transmission control information table from the center server 102).
Regarding the Fukunaga reference, applicant states that, Fukunaga does not disclose an invention that allows the sub-terminal device to generate implementation data.	In contrast to applicant's assertions, Fukunaga reference discloses the image server 111 generates implementation data (paragraph 154 and 86, transmission/reception start request is generated and send to center server 102 after a transmission/reception start request is received by the image server 111 sent by the center server 102 for requesting data).
Regarding the Tanaka reference, applicant states that, Tanaka does not disclose a system in which a sub-terminal device	In response to applicant's arguments against the references individually, one cannot show

reads storage data in a main terminal device and generates implementation data based on the data stored in the main terminal device.	nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986). In contrast to applicant's assertions, Tanaka reference is used in combination with Fukunaga and Iinuma. In Fukunaga and Iinuma clearly disclose a system in which a sub-terminal device reads storage data in a main terminal device and generates implementation data based on the data stored in the main terminal device (Fukunaga, paragraph 86, 154, generating a transmission/reception request after a transmission control information table is read and Iinuma, paragraph 2 and 27).

Conclusion

8. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Justin Y. Lee whose telephone number is (571) 272-5258. The examiner can normally be reached on M - F 8:30 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duc Nguyen can be reached on 571-272-7503. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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PRIMARY EXAMINER